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*	STATINTL	2/2/
		Page 2
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STATINTL	DESCRIPTION OF 2825A CONTROL PANEL (Continued)	
	2.3 Ten 11 position rotary switches to generate remondant characters in the 2827A Synchronizer (See Para Synchronizer specification).	otely special . 4.9 of
	2.4 1 transmission indicator light, powered by the 23	827A Synchronizer.
STATINTL STATINTL	DESCRIPTION OF #2826A BI-DIRECTIONAL COUNTER Dwg. No. 5000-119)	
= · · · · · · · · · · · · · · · · · · ·	The 2826A Bi-Directional Counter is a 6 digit, bi-directional to will register the algebraic sum of the number of input pulses for A and B.	talizer which d into the inputs
- - - - - -	 Input requirements, Channel A and B: Pulse, 5μsec wide, +1V peak amplitude in reference to 0 volvinse time 1μsec or less. 	ts,
	Maximum Counting Rate: 100KC May be expanded to 1MC (C	option).
	Minimum spacing between pulses on either channel: 10μsec.	
:	Preset-reset capability: From 000,000 through 999,999 by r BCD 1-2-4-8 coded switches necessary. Preset voltage suppreset command is remote by contact closure.	emote selection, ply from counter.
-	Reset capability: To 000,000, by remote contact closure.	
-	Output specifications: BCD 1-2-4-8. Logic 1= -8V±2V; Logic over 6.8K series resistor. BCD output is from built-in region.	c 0=5V or less ster.
- - -	Storage capability: The counter has a register which will fold decades until a keying command is issued. Upon this comma contained in the register is being held until removal of the ke keying command is a level change from -6V12V to5V - register store BCD coded information, not the 10 line-output readout.	and the information ying command. The
	Readout: Remote, 10-line output to drive standard Nixie* tuk	oe.
	_ Counting direction: Normal or reversed by external contact	closure.
STATINTL	* trademark	

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STATINTL STATINTL #2826B Bi-Directional Counter has the identical specifications, except for the input specifications.

- 2826B Input requirements: 2 sine - or square waves, 90° out of phase min. amplitude: 90mV Peak-to-Peak.

- Input impedance: 5K ohms shunted by 30pf.

- Power requirements: 115VAC ±10%, 50/60cps, 60 watts.

- Dimensions: Approximately 19" x 5 1/4" x 12 1/2" (without connectors) Rack mount, all connectors on rear panel.

Weight: Approximately 35 lbs. net.

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DESCRIPTION OF #2827A SYNCHRONIZER & FORMAT OUTPUT CONTROL Dwg. No. 5000-120)

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General:

The #2827A Synchronizer and Format Output Control accepts up to 42 digits or characters in BCD coded form and converts these into serial form.

- 1.1 Speed: 1200 letters per second ±. 001%.
- 1.2 Input requirements: Up to 42 1-2-4-8 coded parallel inputs. Logic 1 equals -4.5 to -12 volts, logic 0 equals -.5 volts or less into 3.9K load.
- 1.3 Receive data lead (RDL): +8 ±2V for space, -8 ±2 for mark into 4.7 K load.
- 1.4 Clear to send (CTS) signal: -8V ±2 for Off, +8 ±2V for On into 4.7K load.
- 1.5 Interlock to transmission equipment: 0V for Off, +8 ±2 for On into 4.7K load.
- 1.6 Send Data Lead (SDL): +10 ±2V for space, -10 ±2 V for mark @ 2mA each.
- 1.7 Request to Send (RTS) signal: -8V ±2V for Off or Hold; +8 ±2V for On or Transmission.

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DESCRIPTION OF #2827A SYNCHRONIZER & FORMAT OUTPUT CONTROL (Continued)

- 2.1 In addition to the information bits to be transmitted, two pulsing bits are generated for each character. A start pulse is a space or (0) and is the same duration of the other bits. A stop pulse is a mark or (1) and is a minimum of 1.5 bits in length but may be longer.
- 3.1 CODE: The code generated will meet the following requirements:
- 3.2 Code to be used is Field Data Code, consisting of a 6-bit character plus one parity bit. Parity is odd.
- 3.3 The 2° or least significant information bit is the first bit to be transmitted from each character.
- 3.4 Parity is to be the 2⁶ bit and is the last information bit of each character.
- 4.1 MESSAGE GENERATED: The message generated by the Synchronizer consists of:
- 4.2 Digital coordinate values for each axis of the system. This shall normally consist of six decades plus sign per axis.
- 4.3 A start of message character (SOM).
- 4.4 An end of transmission character (EOT). (This bit configuration would normally be a parity error).
- 4.5 A message parity count (MPC). This is the sum of bits of all characters transmitted (including SOM and EOT), and is non carry add. Lateral parity is odd. Longitudinal parity is even. The parity bit is to be the sum of the longitudinal bits.
- 4.6 Four special instruction characters, each generated by four operator controlled push on, push off back lit switches, two dummy bits (mark or 1), and a parity bit generated by the equipment based on the condition of the four switches. The fixed dummy bits occupy the 2⁴ and 2⁵ bit positions.
- 4.7 A special readout character generated by five momentary contact push button switches and two fixed dummy bits occupying the 2⁵ and 2⁶ bit positions. The dummy bits are spaces or 0's. It is understood that the parity (2⁶) is to be fixed at 0 so that if two of the five switches are pressed at the same time, a parity error will be detected. The five switches are understood as readout switches and also control the request to send, SOM and text as later described.

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STATINTL	DESCRIPTION OF # 2827A SYNCHRONIZER & FORMAT OUTPUT CONTROL (Continued)
	4.8 Three rotary switches are provided for machine identification purposes. These switches are to have the capability to create 0 to 9 and are placed at the rear panel of the synchronizer so that only the maintenance engineers have the capability to change them.
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4.9 10 special characters, generated by remote switch setting. These switches have the capability of producing 0 to 9, minus (-).
	5.1 SPECIAL CIRCUITS: There is to be no character by character acknowledge signal received by the digitizer output circuit. However, there is to be a message acknowledge or error signal received on the basis of the total message transmitted. The reply consists of SOM, A or E, EOT, and MPC. In addition, a timer in incorporated in the equipment to trigger an alarm if the reply is not received in a time of 3 seconds to be specified by the customer. The output is to be held in the digitizer buffer until an acknowledge is received or the timer alarm is triggered. If an error signal is received due to a bad transmission, the timer is reset and another attempt at transmission is made. If, after a set number of attempts of retransmission (under computer control), an acknowledge or error signal is not returned, the timer will time out. If a read-out is initiated but no acknowledge or error signal is received, the timer will also time out, warning the operator that the transmission is not taking place. In addition, an indicator light is to be placed on the control panel in close
	In addition, an indicator light is to be placed on the control panel in close proximity to the readout switches. On depressing any one of the five readout switches the light is to turn on and remain on for approximately one second or until an acknowledge signal is received, which ever is longer, This will indicate to the operator that a readout has been initiated within the digitizer.
	STATINTL
	The price for the Model 2825A Control Panel is STATINTL The price for the Model 2826A Bi-Directional Counter (2 required) is The price for the Model 2826B Bi-Directional Counter (2 required) is The price for the Model 2827A Symphosis and Counter (2 required) is

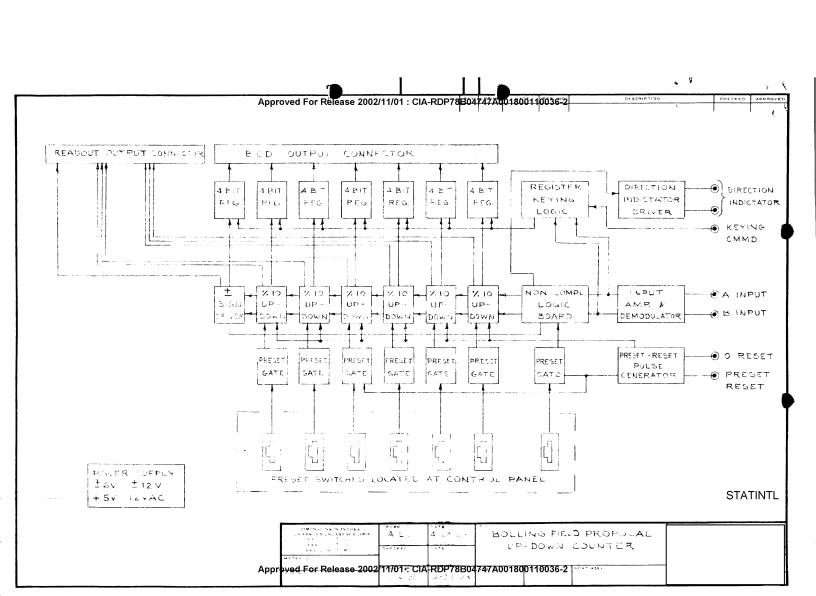
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The price for the Model 2827A Synchronizer is

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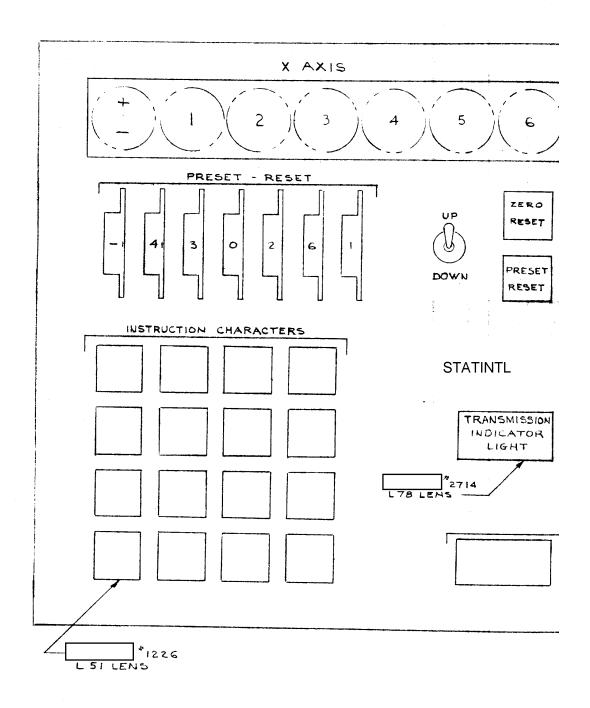
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STATINTL	All prices are FOB Delivery of 120 days after receipt of order. The second system, 130 days order. Terms are net 30 days.	the first system is ays after receipt of
	If further information and/or comment is desired, please dous.	o not hesitate to contact
	Very truly yours,	
STATINTL		
=	Regional Sales Manager	
- -	MGS:bg	

	Tues April 30, 1963 Digital Counter for Measuring Machines. (proposal)
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	As of Tues. April 30, 1963
STATINTL	finished Friday, it went out Monday. He went into quite a bit of detail on the specifications of each unit involved.
ž.	A complete counter consists of the following:
STATINTL	For an measuring machine;
	1 ea Centrel Panel, Medel 2825 A 2 ea Counter , Medel 2826 A 1 ea Synchrenizer, Medel 2827 A
STATINTL	For an measuring machine:
	l ea Centrel Panel, Medel 2825 & 2 ea Counter , Medel 2826 B 1 ea Synchronizer , Model 2827 A
STATINTL	A Z-axis count can be added by adding a counter (a variation of the model 2826) and a set of 6-digit nixies on the control panel or adjacent to it.
: :.	

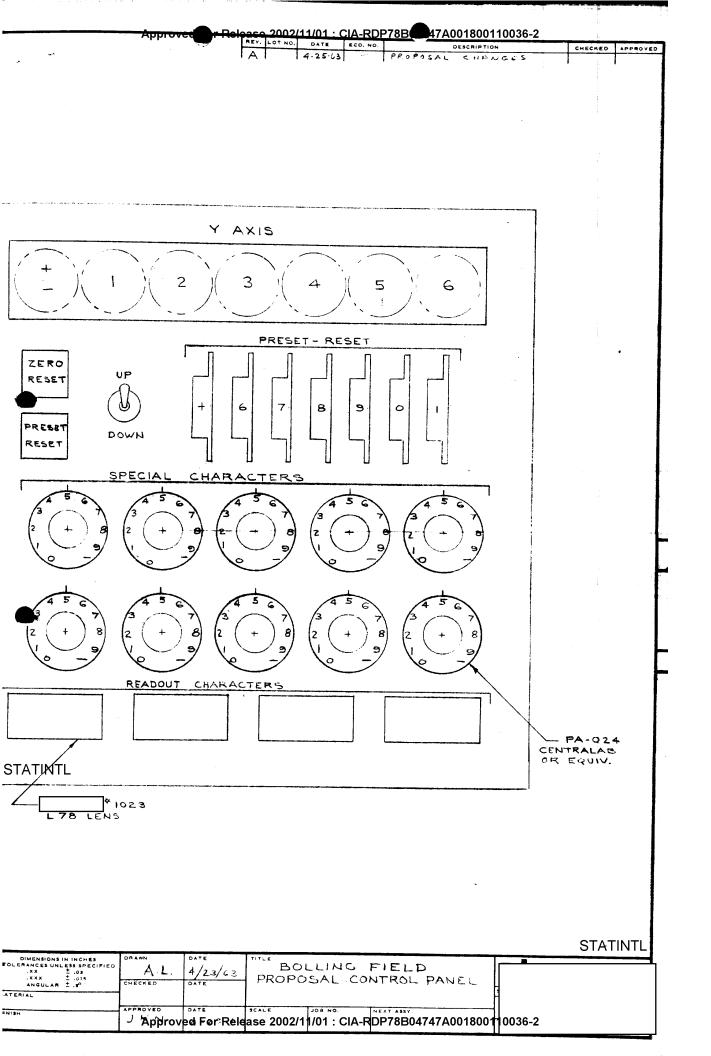


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TECHNICAL BACKGROUND PROCUREMENT INFORMATION

		If so, a complete awings and specifications it. Comments: days? If so, indicate free
.	would normally be included in this procurement will contract cover a period of more than 90 ff "yes", are progress reports desired?	If so, a complete awings and specifications it. Comments: days? If so, indicate free
.	any more of this unit will be procured? set of directly reproducible manufacturing drawould normally be included in this procuremen Will contract cover a period of more than 90 If "yes", are progress reports desired?	If so, a complete awings and specifications it. Comments: days? If so, indicate free
S.	any more of this unit will be procured? YES set of directly reproducible manufacturing drawould normally be included in this procurement. Will contract cover a period of more than 90 to the set of	If so, a complete awings and specifications it. Comments:
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	any more of this unit will be procured?	If so, a complete awings and specifications
	any more of this unit will be procured?	If so, a complete awings and specifications
В.	Is this procurement for other than a standard	, "off the shelf" or slightly "yes", is it anticipated that
Α.	Deliverable items: Two each electronic counter	ers.
		d total amt.
c	comperator information for on line use with a Uni	Lvac 490
Br	ef description of this procurement: Development	ent of a digital readout of
в.	Evaluation of previous performance: No pre-	vious record
		25X1A

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	To part question touting involved 2
E.	Is any special tooling involved?
F.	Security: 1. Association with the Sponsor is Secret
	2. The specifications and/or drawings are Unclassified
	3. The item is <u>Unclassified</u>
	4. Contractor personnel known to be aware of this proposed procurement
	5. Other security information Preliminary plant inspection
	Completed by security
cate firm	sons for selection of this source. If other sources were considered, indice results. If no other sources were considered, list the reasons why this is considered to be uniquely qualified to perform this work. Proposals solicited from
cate firm	eresults. If no other sources were considered, list the reasons why this is considered to be uniquely qualified to perform this work. Proposals solicited from unpriced proposal was not dered technically acceptable. In addition, it is felt that has the best
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In the event additional space is required, use the reverse side(s) of this form, with a reference to the item number to which the comment applies.

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